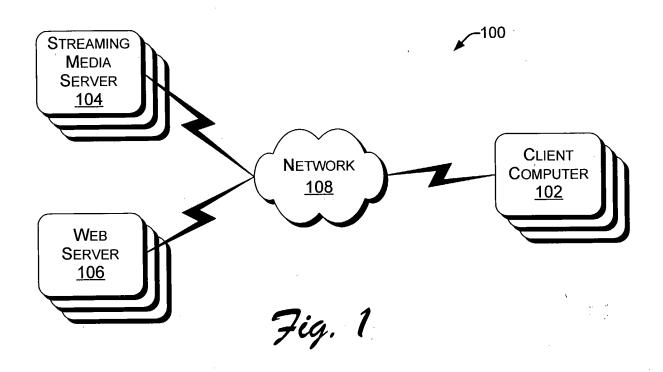
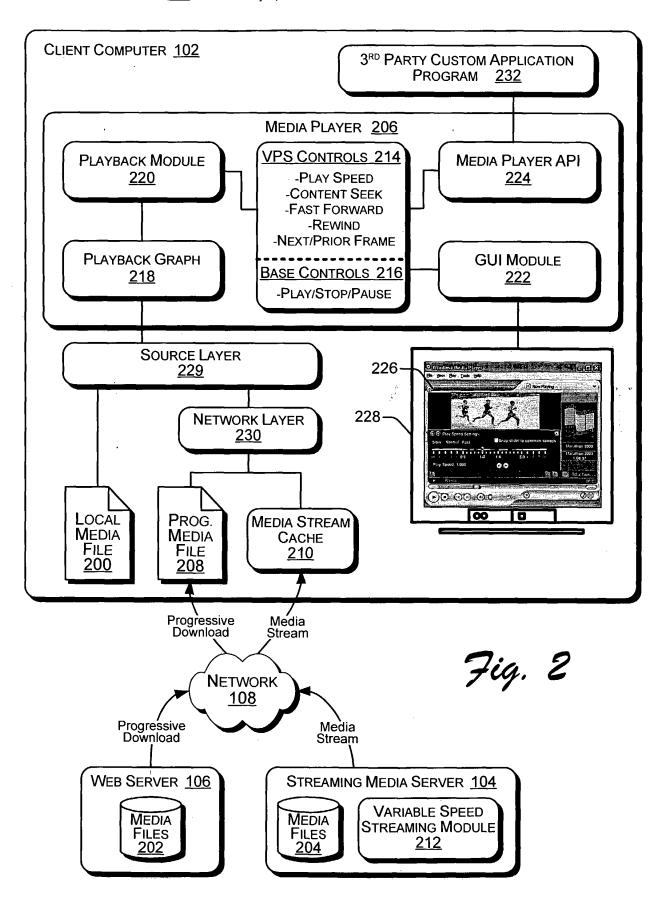
Inventors: Li-wei He, Adil Sherwani, Patrick Nelson, Richard Saunders, Josh Cain, Anders Klemets Title: Variable Play Speed Control for Media Streams



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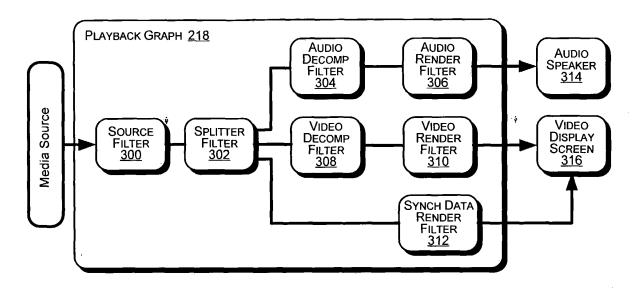


Fig. 3

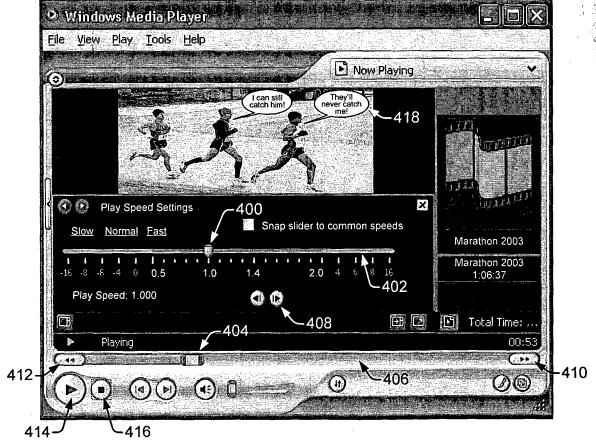


Fig. 4

<u>Inventors</u>: Li-wei He, Adil Sherwani, Patrick Nelson, Richard Saunders, Josh Cain, Anders Klemets <u>Title</u>: Variable Play Speed Control for Media Streams

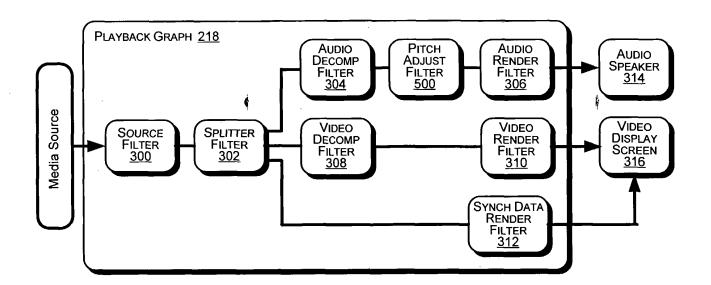
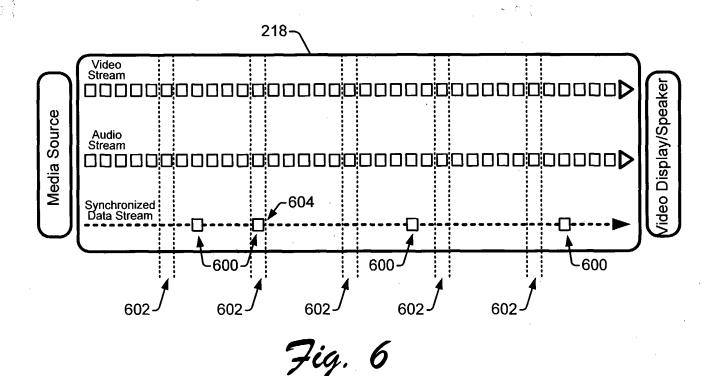


Fig. 5



Inventors: Li-wei He, Adil Sherwani, Patrick Nelson, Richard Saunders, Josh Cain, Anders Klemets

<u>Title:</u> Variable Play Speed Control for Media Streams

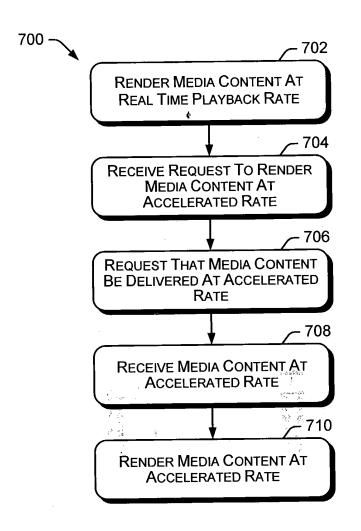


Fig. 7

Inventors: Li-wei He, Adil Sherwani, Patrick Nelson, Richard Saunders, Josh Cain, Anders Klemets <u>Title</u>: Variable Play Speed Control for Media Streams

800 -- 802 RECEIVE MEDIA STREAM FROM SOURCE - 804 **DETERMINE THE SOURCE OF MEDIA** STREAM 806 DETERMINE IF SOURCE CAN DELIVER MEDIA STREAM AT ACCELERATED RATE, E.G.: - STREAMING SERVER ABLE TO RESPOND To Variable Rate Requests? - NETWORK BANDWIDTH AND OTHER CONDITIONS? - AVERAGE WEB SERVER DATA DELIVERY RATE? 808 ENABLE OR DISABLE VARIABLE PLAY SPEED CONTROLS DEPENDING ON SOURCE AND ON WHETHER SOURCE CAN DELIVER MEDIA STREAM AT ACCELERATED RATE, E.G.: - DISABLE IF STREAMING SERVER UNABLE TO RESPOND TO VARIABLE RATE **REQUESTS** - ENABLE TO EXTENT NETWORK BANDWIDTH AND OTHER CONDITIONS **PERMIT** - ENABLE TO EXTENT AVERAGE WEB SERVER DATA DELIVERY RATE PERMITS? - ENABLE DECELERATED PLAY SPEED EVEN IF ACCELERATED SPEEDS NOT

Fig. 8

ENABLED

Inventors: Li-wei He, Adil Sherwani, Patrick Nelson, Richard Saunders, Josh Cain, Anders Klemets Title: Variable Play Speed Control for Media Streams

900 -902 RECEIVE REQUEST FROM CLIENT COMPUTER TO DELIVER MEDIA CONTENT AT ACCELERATED RATE - 904 DETERMINE DELIVERY CAPACITY AND IF NETWORK LINK CAN SUPPORT ACCELERATED RATE **DELIVER MEDIA CONTENT TO CLIENT COMPUTER AT ACCELERATED RATE IF CAPACITY** AND NETWORK LINK CAN SUPPORT ACCELERATED RATE - 908 IF CAPACITY OR NETWORK LINK CANNOT SUPPORT ACCELERATED RATE: -DROP DATA FROM MEDIA CONTENT; -DELIVER MEDIA CONTENT AT REAL TIME PLAYBACK RATE

Fig. 9

Inventors: Li-wei He, Adil Sherwani, Patrick Nelson, Richard Saund rs, Josh Cain, Anders Klemets Title: Variable Play Speed Control for Media Streams

